

What is claimed is:

1. A detachable temperature controller comprising:
a temperature control unit comprising:
a housing having a tag end and a device end;
power outlet plugs disposed on the device end for transmitting electrical power to an electrical device;
power inlet contacts disposed on the tag end for receiving electrical power;
a sensor switch disposed at a middle position of the housing controlling electrical connection between the power inlet contacts and the power outlet plugs; and
an iron sheet disposed on the tag end of the temperature controlling housing; and
a magnetic socket part comprising:
a pair of power contact blades positioned to mate with the power inlet contacts on the temperature control unit; and
a permanent magnetic-iron positioned for interacting with the iron sheet of the temperature control unit;
wherein, when the power inlet contacts are electrically connected to the power contact blades, the permanent magnetic-iron attracts the iron sheet resulting in a magnetic coupling of the temperature control unit and the magnetic socket part.
2. The detachable temperature controller according to claim 1 further comprising:
a magnetic circle surrounding the permanent magnetic-iron for completing the magnetic coupling.
3. The detachable temperature controller according to claim 1 wherein the iron sheet is oxygenated iron.
4. The detachable temperature controller according to claim 1 wherein the temperature control unit is for controlling power to an electrical heating device, wherein the sensor switch passes power

from the power inlet contact blades to the electrical heating device when sensed temperature is less than a desired temperature and wherein the sensor switch interrupts power from the power inlet contact blades to the electrical heating device when sensed temperature is at a desired temperature.

5. A detachable controller comprising:

a switching element within a first housing and adapted for electrical connection to an electrical device; and

a magnetic socket within a second housing, the magnetic socket being adapted for electrical connection to a power source and adapted for electrical and magnetic coupling to the switching element;

wherein overcoming the magnetic coupling to create physical separation of the magnetic socket from the switching element terminates power from the power source to the switching element.

6. The detachable controller of claim 5 wherein the electrical device is an electrical heating device, and wherein switching element comprises:

a sensor switch which passes power from the power source to the electrical heating device when sensed temperature is less than a desired temperature and which interrupts power from the power source to the electrical heating device when sensed temperature is at a desired temperature.

7. The detachable controller of claim 5 wherein the switching element comprises:

a magnetic iron sheet disposed within the first housing, the magnetic iron sheet being electrically isolated from the electrical circuit transmitting power to the electrical device.

8. The detachable controller of claim 7 wherein the magnetic socket comprises:

a permanent iron magnet within the second housing extending longitudinally toward the switching element; and

a magnetic circle within the second housing and wrapped around the permanent iron magnet for conducting a magnetic field produced by the permanent iron magnet.

9. A magnetically coupled controller comprising:

a sensing element comprising:

a first housing having a device end and an opposing coupling end;

two power outlet terminals on the device end of the first housing;

two power inlet terminals on the coupling end of the first housing and extending into the first housing; and

a sensor switch controlling completion of an electrical circuit from the two power inlet terminals to the two power outlet terminals; and

an iron sheet disposed on the coupling end of the first housing; and

a socket element for mating with the coupling end of the sensing element, the socket element comprising:

a plug for connection to a power source;

a second housing;

electrical contact blades within the second housing and positioned to mate with the two power inlet terminals of the sensing element;

an electrical power cord running from the plug to the electrical contact blades; and

a permanent magnet within the second housing and positioned to mate with the iron sheet of the sensing element;

wherein the socket element is magnetically coupled to the sensing element via magnetic attraction between the permanent magnet and the iron sheet.

10. The magnetically coupled controller of claim 9, further comprising a magnetic circle extending around the permanent magnet and overhanging an end of the permanent magnet, wherein the magnetic circle carries a magnetic field between the permanent magnet and the iron sheet.

11. The magnetically coupled controller of claim 9, further comprising a magnetic circle formed

of oxygenated iron carrying a magnetic field between the permanent magnet and the iron sheet.

12. The magnetically coupled controller of claim 9 wherein the second housing shields the electrical contact blades of the socket element from direct contact when not in use.

13. The magnetically coupled controller of claim 9 wherein, if the magnetic coupling between the socket element and the sensing element is broken, power to the sensing element is terminated.

14. The magnetically coupled controller of claim 9, wherein the iron sheet is electrically isolated from the power terminals and extending such that a surface area of the iron sheet is maximized in a direction of the coupling end.